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	on page 1, lines 26-28, remove "serial no, Attorney docket Number M 8408
	US, filed on the same day as the present Application" and insert-U.S. Patent Application
AD	Serial No. 09/533,720, filed March 22, 2000;
	on page 2, lines 9-11, remove "serial no, Attorney docket Number M- 8409
	US, filed on the same day as the present Application" and insert-U.S. Patent Application
A3	Serial No. 09/532,921, filed March 22, 2000;
	on page 2, lines 17-19, remove "serial no, Attorney docket Number M 8546
	US, filed on the same day as the present Application" and insertU.S. Patent Application
AH	Serial No. 09/533,013, filed March 22, 2000;
	IN THE CLAIMS:  Please add new Claims 29-32. Please cancel Claim 18. Please amend Claims 1-28 as follows.
Julo1	1. (Amended) A system for searching music, [based upon music content that may be described by a plurality of predetermined feature vectors,] comprising:
^	[a user interface that can receive a plurality of user requests for searching music,
AS	wherein the user requests defines a set of search parameters]
	a plurality of feature vectors defining perceived music attributes of a music sample;
	and
	an inferential engine for comparing said plurality of feature vectors of plural music
	samples to user entered search parameters to generate a playlist for said user.
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SUITE 700 SAN JOSE, CA 95110 (408) 453-9204 FAX (408) 453-770	2. (Amended) The system of Claim 1, wherein[,] one of said plurality of [the
[n	plural] feature vectors comprises [is] an emotional quality vector describing the emotional
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reaction to music, based upon whether music is Intense, Happy, Sad Mellow, Romantic, Heartbreaking, Aggressive, or other emotions.

- 3. (Amended) The system of Claim 1, wherein one of said plurality of [the plural] feature vectors comprises [is] a vocal quality vector describing the vocal quality of music, based upon whether music includes a Smooth voice, a Powerful voice, a Great voice, a Soulful voice, or other voice qualities.
- 4. (Amended) The system of Claim 1, wherein[,] one of <u>said plurality of</u> [the plural] feature vectors <u>comprises</u> [is] a sound quality vector describing the sound quality of music, based upon whether music includes a Strong beat, or is simple, or has a good groove, or is fast, or is speech like, or emphasizes a melody, or other sound qualities.
- 5. (Amended) The system of Claim 1, wherein[,] one of <u>said plurality of</u> [the plural] feature vectors <u>comprises</u> [is] a situational quality vector describing the plural situations for which the music may be used, based on whether the music is, good for a workout, a shopping mall, a dinner party, a dance party, for slow dancing, or for studying or other situations.
- 6. (Amended)/The system of Claim 1, wherein[,] one of said plurality of [the plural] feature vectors comprises [is] a genre vector describing the music genre, based on whether the music is belongs to a plurality of genres including, Alternative, Blues, Country, Electronic/Dance, Folk, Gospel, Jazz, Latin, New Age, R&B, Soul, Rap, Hip-Hop, Reggae, Rock or others.

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A5 cont.

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25 METRO DRIVE SUITE 700 SAN JOSE, CA 95110 (408) 453-9200 FAX (408) 453-7979 7. (Amended) The system of Claim 1, wherein[,] one of said plurality of [the plural] feature vectors comprises [is] an ensemble vector describing the music ensemble, based on whether the music includes a female solo, male solo, female duet, male duet, mixed duet, female group, male group or instrumental.

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8. (Amended) The system of Claim 1, wherein[,] one of <u>said plurality of</u> [the plural] feature vectors <u>comprises</u> [is] an instrument vector describing the music instruments, based on whether the music includes a includes an acoustic guitar, electric guitar, bass, drums, harmonica, organ, piano, synthesizer, horn, or saxophone or other instruments.

A5 Cont.

- 9. (Amended) The system of Claim 1, further comprising[:] a plurality [feature vector] of input mixers[, that allow a] for allowing said user to dynamically update said search parameters [set a level of a specific feature vector].
- 10. (Amended) The system of Claim 9, wherein [the feature vector mixers] said plurality of input mixers comprises input mixers taken from the group consisting of [include] a genre mixer, a voice quality mixer, an emotional quality mixer, an instrument mixer and a sound quality mixer.
- 11. (Amended) The system of Claim 1, [9, wherein the feature vector mixers include a voice quality mixer] further comprising a user interface for receiving a plurality of user inputs defining said search parameters.

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25 METRO DRIVE SUITE 700 SAN JOSE, CA 95110 (408) 453 9200 FAX (408) 453-7979 12. (Amended) The system of Claim 1, [9, wherein the feature vector mixers include an emotional quality mixer] wherein said plurality of feature vectors are stored in a production database.

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13. (Amended) The system of Claim 1, 19, wherein the feature vector mixers include an instrument mixer] wherein said inferential engine comprises a modeling module for performing a similarity analysis to determine a function for representing the similarity between said plural music samples.

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14. (Amended) The system of Claim 1, [9, wherein the feature vector mixers include a voice quality mixer] wherein each of said plurality of feature vectors are formulated using responses to a plurality of questions asked of a plurality of music listeners after said plurality of music listeners are played a plurality of music samples.

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15. (Amended) A system for searching music based upon music content, comprising:

[that may be described by a plurality of predetermined feature vectors, wherein a user enters search parameters into a user interface that allows a user to vary the plural levels of the plural feature vectors, comprising:]

a user interface [engine] for receiving a [that receives the] user request[s] for [searching] a music playlist, said user request being formulated into a search vector value;

a plurality of feature vectors defining feature vector values corresponding to perceived

attributes of music; and

an inferential search engine for generating a playlist of selected music, said music selection being made [based upon] by comparing said plurality of feature vector values to

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かる	said search vector value [user chosen feature vector levels, wherein the user interface
V	includes a parser for parsing the user requests].
A5	16. (Amended) The system of Claim 15, wherein said user interface comprises a
1,	parser for parsing the user requests, wherein the parser is a XML parser.
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The same	17. (Amended) The system of Claim 15, wherein the user request[s includes]
	comprises standard query language (SQL) calls [to the user interface engine].
<u> </u>	
	\ Please cancel Claim 18.
Durch	19. (Amended) The system of Claim 15 11, further comprising:
, 6)	a modeling module for creating a music space by performing [that performs] a
Λ (	similarity analysis of said feature vector values, wherein said similarity analysis establishes a
$\bigcup b$	boundary for said music space, said feature vector values indicating a location for said music
M	within said music space and wherein said comparison of said feature vector values to said
, ,	search vector value comprises determining the proximity of said music locations to a location
	within said music space indicated by said search vector value [ by comparing feature

ectors stored in a production database].

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(Amended) A system for creating a [plurality of] music space[s], comprising: 20. [that allows comparison of music attributes, defined by a plurality of ]

a plurality of feature vectors defined by a first set of music attributes allocated to a music piece; and Ithat are based upon expert data collected from a plurality of expert

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music listeners and a plurality of music listeners who respond to a plurality of questions after listening to a plurality of music samples, comprising:]

a modeling module which creates a plurality of music spaces by performing a similarity analysis of said feature vectors, said similarity analysis establishing boundaries for said music spaces [that acquires the expert music listener and music listener responses for defining a plurality of music spaces].

- 21. (Amended) The system of Claim 20, wherein one of <u>said plurality of feature</u>

  <u>vectors comprises</u> [the plural music spaces is based upon] an emotional quality vector

  describing the emotional reaction to music, based upon whether music is Intense, Happy, Sad,

  Mellow, Romantic, Heartbreaking, Aggressive, or other emotions.
- 22. (Amended) The system of Claim 20, wherein one of said plurality of feature vectors comprises [the plural music spaces is based upon] a vocal quality vector describing the vocal quality of music, based upon whether music includes a Smooth voice, a Powerful voice, a Great voice, a Soulful voice, or other voice qualities.
- 23. (Amended) The system of Claim 20, wherein one of <u>said plurality of feature</u> vectors comprises [the plural music spaces is based upon] a sound quality vector describing the sound quality of music, based upon whether music includes a Strong beat, or is simple, or has a good groove, or is fast, or is speech like, or emphasizes a melody, or other sound qualities.
- 24. (Amended) The system of Claim 20, wherein one of <u>said plurality of feature</u>

  vectors comprises [the plural music spaces is based upon] a situational quality vector

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25 METRO DRIVE SUITE 700 SAN JOSE, CA 95110 (408) 453-9200 FAY (408) 453-7079 describing the plural situations for which the music may be used, based on whether the music is, good for a workout, a shopping mall, a dinner party, a dance party, for slow dancing, or for studying or other situations.

- 25. (Amended) The system of Claim 20 wherein one of said plurality of feature vectors comprises [the plural music spaces is based upon] a genre vector describing the music genre, based on whether the music is belongs to a plurality of genres including, Alternative, Blues, Country, Electronic/Dance, Folk, Gospel, Jazz, Latin, New Age, R&B, Soul, Rap, Hip-Hop, Reggae, Rock or others.
- 26. (Amended) The system of Claim 20, wherein one of said plurality of feature vectors comprises [the plural music spaces is based upon] an ensemble vector describing the music ensemble, based on whether the music includes a female solo, male solo, female duet, male duet, mixed duet, female group, male group or instrumental.
- 27. (Amended) The system of Claim 20, wherein one of said plurality of feature vectors comprises [the plural music spaces is based upon] an instrument vector describing the music instruments, based on whether the music includes a includes an acoustic guitar, electric guitar, bass, drums, harmonica, organ, piano, synthesizer, horn, or saxophone or other instruments.
- 28. (Amended) The system of Claim 20 [27], wherein said plurality of music spaces are combined to define [on of the plural music spaces is] a combined music space [that may include a plural combination of the emotional quality vector, vocal quality

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vector, sound quality vector, ensemble quality vector, genre vector, instrument vector, or situational vector.

Please add new Claims 29-32.

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--29. (New) The system of Claim 28, wherein said plurality of feature vectors comprises at least two feature vectors taken from the group consisting of an emotional quality vector, a vocal quality vector, a sound quality vector, an ensemble quality vector, a genre vector, an instrument vector, and a situational vector, wherein said combined music space comprises music spaces corresponding to said at least two feature vectors.

- 30. (New) The system of Claim 28, wherein said music piece is assigned a first location in said combined music space proximate to a second locations assigned to a second music piece having a second plurality of feature vectors defined by similar by a second set of music attributes similar to said first set, said first and said second locations forming a cluster.
- 31. (New) The system of Claim 20, wherein said plurality of feature vectors are each formulated using responses to a plurality of questions asked of a plurality of music listeners after said plurality of music listeners are played a plurality of music samples.

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25 METRO DRIVE SUITE 700 SAN JOSE, CA 95110 (408) 453-9200 FAX (408) 453-7979 32. (New) The system of Claim 1, further comprising a music space, wherein each of said feature vectors provides a location for said plural music samples within said music space, said inferential engine comparing said plurality of feature vectors using said locations. --